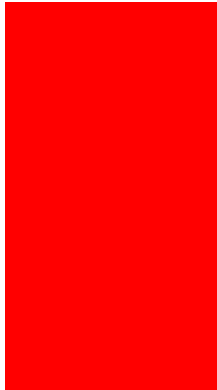


A LEADING SUB-SAHARAN AFRICA SOLUTIONS SERVICE PROVIDER



ELECTRICAL ENGINEERING

Cables / Overhead Lines / Substations up to 132kV
Smart Street & Area Lighting / Enclosure Management
Revenue, Project & Asset Management / Smart Meters

INTERNET of THINGS

Smart Cities (Control, Monitor & Management)
Development of intelligent Software and Hardware

RENEWABLE ENERGY

LED LMS / Wind Farms / Solar Plants

STEEL MANUFACTURING

Smart Enclosures / General Enclosures / Fencing etc.

RENEWABLE / CLEAN / GREEN ENERGY

"THE GREEN EVOLUTION - FOR AN ECO SUSTAINABLE FUTURE"



COMPANY PROFILE

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SMART & INTELLIGENT INTEGRATED MANAGEMENT



01

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COMPANY INTRODUCTION

SMART & INTELLIGENT INTEGRATED MANAGEMENT



02



0 11 394 0902



0 11 394 6625



info@sstrading.co.za

HEAD OFFICE

25 Forge Road
Spartan
Kempton Park
1619

MIDDELBURG

3 Hektaar Street
Middelburg
1050

PIETERMARITZBURG

32 Bulman Road
Mkondeni
Pietermaritzburg
3201

BLOEMFONTEIN

67 Krause Street
Oranjesig
Bloemfontein
9332

DURBAN

Unit 3 Lot 106
22 Beechgate Crescent
South Gate, Industrial Park
Umbogintwini, 4126

GENERAL INFORMATION

COMPANY REGISTERED NAME:

Secrete Steps Trading (Pty) Ltd

COMPANY NEW REGISTRATION NUMBER:

2014/115266/07

ORIGINAL YEAR OF ESTABLISHMENT:

2004

SHAREHOLDER (41%):

MP Sepato (African Male)

SHAREHOLDER (10%):

TM Sepato (African Female) Non Executive

SHAREHOLDER (49%):

AM Boucher (White Female)

CIDB GRADINGS:

8EP PE | 6CE | 1GB

CIDB REGISTRATION NUMBER:

145392

B-BBEE RATING:

Level 1 Contributor

ECB REGISTRATION NUMBER:

22107

ECA REGISTRATION NUMBER:

SW1498

3

VAT REGISTRATION NUMBER:

4180219174

WORKMANS COMPENSATION REGISTRATION:

990000300284

COMPANY BACKGROUND:

SS Trading is a professional Electrical Contractor, specialising in electrical contracting, electrical maintenance, renewable energy and construction services for the industrial, commercial, and domestic marketplace since 2003.

As a well-established electrical engineering company **with over 30 years of experience**, we have built an enviable reputation over the years for quality electrical installations and maintenance services. By working hand in hand with our project managers and field staff, we monitor our projects continuously for quality, cost-effectiveness, and to ensure delivery on time.

We take on almost any client requirement; we specialize in the most challenging and varied projects in our field, from lighting city streets to designing and installing multi-megawatt power supply systems.

Quality, safety, and service are the three focal points in everything we do. From changing a lamp to multi-megawatt supplies, we meet the highest standards and exceed compliance on all relevant legislation with many accreditations, affiliations, and certifications.

Meeting our customer's needs is a top priority. Achieving that and saving the environment is a distinction in which we can all take pride. The diverse capabilities of Secrete Steps makes us a preferred Electrical Contractor for the ever-changing demands of customers. As an electrical engineering giant, we continuously meet these demands by developing a complete understanding of the unique requirements of each customer and then applying practical and innovative solutions to meet those requirements.

Our purpose is to serve our customers; our dedication to find the best solution to fit customers' needs is our passion, and we always provide the best after-care customer service for peace of mind.

Our head office is based in Gauteng, but we work **all over South Africa / Sub-Saharan Africa.**

OUR MISSION:

Our mission is to serve our customers; we are dedicated to finding the best solution to fit the customers' needs by providing the best in customer service.

Protecting, monitoring, controlling and managing energy revenue and assets 24-hours each day by staying relevant with the latest Technology (Internet of Things) implementation. To be cost effective without compromising quality. To interact with our clients, relevant communities and upcoming companies and make them part of the solution.

OUR VISION:

To make a real difference in Sub-Saharan Africa with a full Inclusive and comprehensive Electrical Engineering, Renewable Energy, Energy Revenue, and Asset Protection Management Solutions that will assist utilities and other businesses to ensure that their assets and revenue are protected and services are delivered safely and to the highest standards.

WHY US:

We see and do things differently. Even the smallest details are a big deal to us, and we believe no challenge is too great to overcome.

Our power comes from the talented people within our company and our client contributions. We create an environment in which every person is valued and respected, encouraged to contribute and share, and recognized and rewarded for their efforts.

We are a comprehensive Technology and Electrical Engineering Service Provider, committed to providing solutions for the life of your business. As innovative thinkers and expert collaborators, we combine our expertise to help your business evolve to the next generation.

We are here for you!

SERVICES OVERVIEW

SMART & INTELLIGENT INTEGRATED MANAGEMENT



03

DIVISIONS & SERVICES

RENEWABLE / GREEN
ENERGY SERVICES

OVERHEAD
NETWORK
SERVICES

UNDERGROUND
NETWORK SERVICES

IoT TECHNOLOGY
SERVICES

SMART LIGHTING
SERVICES

ENCLOSURE &
SUBSTATION SERVICES

PROJECT
MANAGEMENT
SERVICES

REVENUE & ASSET
MANAGEMENT
SERVICES

ELECTRIFICATION,
RETICULATION &
REFURBISHMENT

MANUFACTURING
SERVICES



- ▶ **Renewable Energy:** Wind Farms, Solar Plants, LED Lights etc.
- ▶ **Power Lines (Up to 132kV):** Installation, Repairs & Maintenance
- ▶ **Power Cables (Up to 132kV):** Installation, Repairs & Maintenance
- ▶ **Substations (Up to 132kV):** Refurbishment, Repairs & Maintenance
- ▶ **Mini-Subs (Up to 11kV):** Installation, Repairs & Maintenance
- ▶ **Enclosures:** Manufacturing, Installation, Repairs & Maintenance
- ▶ **Internet of Things:** Developing, Implementing, Control & Monitoring
- ▶ **Street & Area Lighting:** Installation, Maintenance, Monitor & Control
- ▶ **Refurbishment (Up to 132kV):** Installation, Repairs & Maintenance
- ▶ **Reticulation (Up to 132kV):** New Installations
- ▶ **Electrification Projects (Up to 132kV):** New Installations
- ▶ **Fault Finding:** Cable fault location, Network fault finding
- ▶ **Preventative Maintenance :** Maintenance Management
- ▶ **Smart Meters :** Installation, Monitor & Control
- ▶ **Revenue Protection:** Control & Monitoring
- ▶ **Asset Management:** Extend the life of your asset
- ▶ **Project Management:** Turn-key Solution Services



Environmental Health Safety Quality

The safety and health of staff, associates, and others who may be affected by Secrete Steps Trading's activities is fundamental to the success of its operation. SS Trading undertakes a proactive approach to manage safety and health, environment, and quality practices, to create a safe environment for all operations.

SS Trading has set standards that address these important issues, constantly striving to achieve the goal of zero incidents, with no lost time or reportable injuries, no environmental incidents, and continual improvement of quality processes. We deliver this through compliance with our integrated risk-based management system that conforms to OSHA 18001/ISO 45001 (Occupational Health & Safety), ISO 9001 (Quality), and ISO 14001 (Environment) standards.

TO ACHIEVE OUR HIGH SHEQ STANDARDS WE:

- Adopted a statement of Zero Tolerance regarding Environment, Safety, Health, and Quality non-conformances.
- Comply with applicable legal, regulatory requirements and agreements
- Ensure that all staff, associates, and partners are competent to undertake their tasks through training, information, instruction, and consultation
- Daily Hazard Identification and Risk Evaluation
- Aims to provide quality that surpasses customers' expectations and adds value for them
- Communicates openly with its stakeholders to ensure an understanding of our SHEQ policies, standards, programs, and performance
- Commit to comply with defined client requirements and procedures
- Set strict standards for SHEQ
- Establish operational SHEQ objectives and audit and review these regularly
- Include SHEQ evaluation in relevant management decisions
- Seek information from relevant suppliers about their impact on service quality, environment, health & safety
- Educate/involve staff and associates and ensure systems are easy and efficient to work with
- Exchange knowledge of SHEQ with customers, society, and relevant stakeholders.





TAKING HANDS TOGETHER IMPROVE LIFE'S

The desire to make a meaningful contribution to the environment we live in is at the heart of our values. It is our Making an unselfish contribution to society, nurturing an entrepreneurial spirit, embracing diversity, and respecting others, underpin our aim to be a responsible corporate citizen.

By exercising corporate responsibility, companies can be mindful of the impact they are having on their communities beyond sales transactions.

Company leaders should embrace their social responsibility to not only benefit their business but also for the sake of **doing good for their communities.**

OUR AIM / GOALS

- We are committed to invest in communities in areas where our projects are active, donating money or / and donating our time (Volunteering).
- **Socially and environmentally conscious investments**
- Improving the quality of life for communities
- **Reducing carbon footprints**
- Participating in fair-trade
- **Roll-out of awareness programs informing and educating communities about the dangers / risks of certain services like electricity and water, how to look after it safely, the values of the services etc.**
- Supporting local businesses, as our products and services are local to sustain South African businesses.
- **Implement job creation programmes in terms of self-employment or "start-your-own-business"**
- The cohesion of different cultures / races to work and exist together



TYPICAL SOCIAL RESPONSIBILITIES

ENVIRONMENTAL RESPONSIBILITY

As environmental issues grew on a global scale, it became more important than ever for companies to be aware of their contributions to these problems.

HUMAN RIGHTS RESPONSIBILITY

Involves enacting fair labour practices, condemning child labour and establishing fair trade practices.

PHILANTHROPIC RESPONSIBILITY

Involves making investments in the local community, whether it is for educational programs, scholarship programs, health initiatives or supporting notable causes in general.

ECONOMIC RESPONSIBILITY

Profits should not come at the expense of ethics. Economic responsibility for corporations also includes finding and implementing the most efficient practices for minimizing wasted capital.



Secrete Steps Trading (Pty) Ltd is committed to establish an opportunity for upcoming contractors and to train and develop them ensuring they are empowered to be an asset for South Africa.

It is our policy to ensure that training is provided to enhance employee safety and meet regulatory training requirements.

Training Program Requirements

- Good business practice and safety requirements dictate that each employee / sub-contractor receives training:
 - At the initial orientation
 - When employees receive a change in work instructions or new responsibilities requiring new orientation
 - When employees are exposed to new substances, processes, procedures, or equipment
 - Whenever a new hazard is identified
 - Training brings new ideas into the workplace or re-establishes desired methods for achieving safer work practices. It also allows managers to review the other elements of the program with employees and ensure that they are put into action on a daily basis.



Managers and Supervisors Responsibilities

- Managers are expected to train employees in the proper use of equipment and safe methods of performing their tasks.
- Periodically, managers will receive management training. General safety orientation will be provided as part of new employee orientation process.
- It is the responsibility of managers to ensure that every employee has been oriented in safety matters and agrees, in writing, to abide by all rules.
- Managers are required to take the time to review the written safety rules with every new employee / sub-contractor.

Orientation

- Managers and supervisors are required to provide orientation to new employees, sub-contractors and existing employees who are moving to a new position or a new work-site. Orientation includes the following:
 - Orientation and discussion of the company's health and safety philosophy and employee safety responsibilities
 - Discussion and distribution of the health and safety employee training material and issues included
 - Discussion about safety policies as they relate to the employee's work setting
 - The explanation of work task requirements

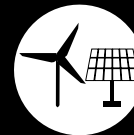
- Explanation and issuance of materials related to Work-safe
- Review of reporting procedures for work-related injuries and accidents
- Review of emergency procedures for reporting accidents and gaining medical treatment
- Documentation of training
- Communicate risks associated with injuries potentially arising out of violence in the workplace
- Communicate the risk factors associated with injuries potentially arising out of the physical demands of the work

Safety First!

Employee Safety Training

- Managers are responsible for ensuring that employees who report to them understand the following:
- An employee will not undertake a task before receiving instructions on how to perform it properly or before being authorized to perform that task. If the employee has any doubt, he or she should immediately contact a manager.
- Safety rules are a condition of employment and must be adhered to by each employee. Rule infractions will result in disciplinary action.
- Mechanical safeguards (for example, the slicer guard) provided must be kept in place at all times. Only authorized personnel are to remove guards for maintenance, repairs and cleaning.
- Employees must report work-related injuries or illnesses, even slight ones, to a manager or supervisor at once. All major incidents are to be reviewed by the joint health and safety committee (if there is one).
- Unsafe working conditions encountered must be reported by the employee to the manager. If unresolved, these unsafe conditions should then be reported to an owner-operator.
- Safety training will be provided to employees as part of their work activities and documented.
- Workplace Hazardous Material Information System (WHMIS).
- Information and procedures related to potential risks of violence in the workplace, including the threat of robbery, working alone, and rude customers.
- The risk factors associated with strains and sprains related to the physical demands of the performed work.
- Controls to prevent strains and sprains have been developed and are practised.
- All employees are obligated to meet the attendance expectations of the work tasks.





Renewable Energy (Green Energy) is from natural resources that do not lead to scarcity or depletion by their consumption due to naturally recurring processes. Such resources are sustainable for an infinite amount of time known as Renewable Resources. The ecosphere is largely composed of these Renewable Resources and is used for the provision of energy since they replenished quickly naturally. Commonly known renewable energy resources include Solar Energy, Biomass Energy, Wind Power, Ocean, Hydropower, Hydrogen, and Geothermal.

The world is shifting towards renewable energy sources (clean energy / green energy) to meet its power needs considering global warming, and pollution concerns, and rising prices of oil, and petroleum.

The biggest threat to non-renewable energy is that it will deplete eventually and once gone, it cannot be replaced or revitalized. Renewable energy resources are sustainable.

Most of the renewable resources are environment-friendly and reduces Air pollution and emission of greenhouse gases, soil contamination, and land degradation thus improving the health of the people while utilizing non-renewable resources like the burning of fossil fuel, etc. imposes a serious threat to the environment and causes Air Pollution.

Renewable energy resources are cheaper, cost-effective, and economically viable. Hydroelectricity, Geothermal Electricity, and Solar Power are the cheapest ways of electricity production.

To continue human civilization without rendering the planet uninhabitable, things need to happen within the energy industry:

(1) We need to electrify as much of our transportation technology and our residential and commercial locations as possible. That means solar, wind, and geothermal.

(2) Once everything's connected to the power grid, we need it to be efficient and resilient.

Solar power and wind are the two most productive renewable energy sources. However, they don't cooperate consistently throughout the months and seasons.

Since we live in a digital world with several things competing for power, it's clear renewables need an assist if they're to power our world without blackouts.

As storage battery technology matures and more batteries are attached to microgrids, they'll become even more resilient and better able to withstand periods of high demand and low production.

Sustainable microgrids are a vital tool in the fight against climate change and increasingly common natural disasters. In the wake of hurricanes, earthquakes, and wildfires, the traditional energy grid in many parts of the country struggles to keep the power flowing, causing outages that slow local economies and ultimately put lives at risk.



OVERHEAD NETWORKS

COMPLETE END-TO-END OVERHEAD NETWORK SOLUTIONS



08

OVERHEAD NETWORK SERVICES

Our comprehensive electrical overhead network construction services provide the foundation for low, medium, and high voltage (Up to 132kV), transmission, and distribution systems. Our broad experience working with public utilities, municipalities, and independent developers makes us uniquely qualified to meet the challenges of your transmission or distribution project. We specialize in providing fast, reliable grid connections.

SS Trading is always up for a good challenge. Over the years, we have built our expertise and capability through low, medium to high voltage overhead line construction, upgrade, and maintenance projects. Our customers span over industrial and commercial businesses, developers, public utilities, **wind farms**, and municipalities.



FOR OVERHEAD NETWORKS UP TO 132kV:

- ▶ **Overhead Line Installations, Reticulation, Electrification, Repairs and Maintenance**
- ▶ Civil Works, and erection of steel structures, and casting of concrete foundations
- ▶ **Installation of Equipment**
- ▶ Stringing of droppers, and overhead conductors
- ▶ **LV, MV, HV Lines:** Installation, spicing, termination, fault location, testing, and commissioning
- ▶ Infra-red Scanning and hot connection repairs
- ▶ **Inspections, maintenance, and repairs**
- ▶ Earth Mat, and Structure Earthing, Repairs, Maintenance, Test and installations
- ▶ **Diagnostic Tests**
- ▶ Overhead Network Monitoring including CCTV

UNDERGROUND NETWORKS



COMPLETE END-TO-END UNDERGROUND NETWORK SOLUTIONS

09

UNDERGROUND NETWORK SERVICES

We provide comprehensive electrical cable services for low, medium, and high voltage (Up to 132kV), transmission, and distribution systems. Our broad experience working with public utilities, municipalities, and independent developers makes us uniquely qualified to meet the challenges of your transmission or distribution project. We specialize in providing fast, reliable grid connections.

SS Trading is always up for a good challenge. Over the years, we have built our expertise and capability through low, medium to high voltage cable construction, upgrade, and maintenance projects. Our customers span over industrial and commercial businesses, developers, public utilities, wind farms, and municipalities.



FOR UNDERGROUND NETWORKS UP TO 132kV:

- ▶ **Cable Installations, Reticulation, Electrification, Repairs and Maintenance**
- ▶ Civil Works, and erection of steel structures, and casting of concrete foundations
- ▶ **LV, MV, HV Cables:** Installation, splicing, termination, fault location, testing, and commissioning
- ▶ Infra-red Scanning and hot connection repairs
- ▶ **Inspections, maintenance, and repairs**
- ▶ Earth Mat, and Cable Earthing, Repairs, Maintenance, Test and installations
- ▶ **Diagnostic Tests**
- ▶ Serving Fault Repairs
- ▶ **Cable Route Tracing**
- ▶ Cable Network Monitoring including CCTV

IoT TECHNOLOGY SERVICES

COMPLETE END-TO-END INTERNET of THINGS SOLUTIONS

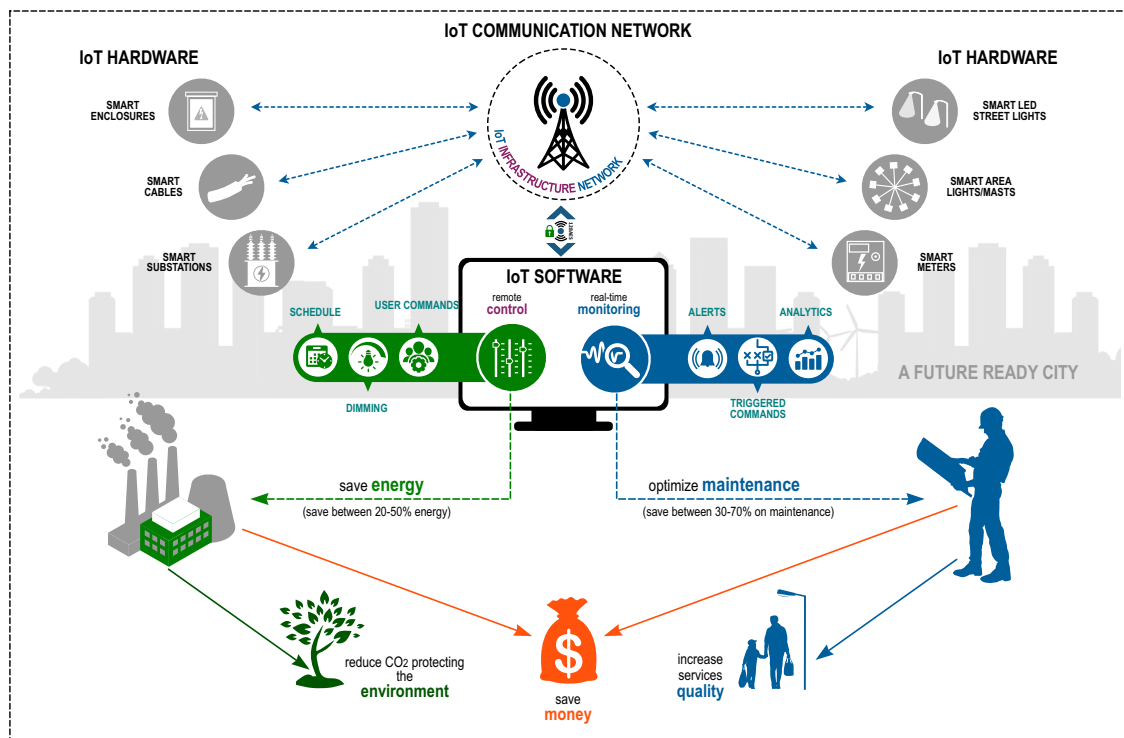


10

An Intelligent Smart City combines the physical and digital worlds, and integrate smart city technology in a strategic approach to deliver a sustainable, prosperous and inclusive future for its citizens, businesses and Utility. It is not about IoT technology for technology sake, but about how Internet of Things technology is used to help the smart city function effectively. It builds on the existing foundation within the smart city and enables it to set a more engaging vision and follow a new and more effective path into the future for all smart cities.

Smart Cities attract knowledge, creativity and investment helping to grow the economy.

In an increasingly digital and technology driven age, cities need to look towards new approaches, innovative technologies and smart infrastructure to create an environment that supports both community and the economic.




KEY FEATURES

- **Intelligent SELF-LEARNING Analytical Software / Master "Big" Data Management Solution**
- Auto Scheduled Tasks
- **Real-time status & reports of installed devices** (Alarms, Battery, Power, Communication, Commands, etc.)
- Making provision for multiple communication protocols: (RF, GSM, 3G, 4G / LTE, NB-IoT, Wi-Fi, Blue-tooth, Ethernet, Fibre and we will be ready for 5G.)
- **Asset Management:** Asset Inventory, a complete audit trail of your infrastructure
- Software is Client Branded
- **Automated Works Order Management** for repairs, preventative maintenance, inspections etc.
- **Manage Staff more effectively,** overtime, response times, time spend to complete tasks, tracking etc.
- It is an all-in-one Security and Technical Management Solution System
- **Analytical Report Generation from an individual device until the entire system**
- Real-time Alarm / Alert Notification Management / Access Control and Monitoring Management

INTELLIGENT ANALYTICAL SOFTWARE


We designed our visual content in a way that is easy to follow and can withstand future UI tweaks. Our software is a web-based application, and users can remotely control, configure and monitor IoT devices that form part of the Easy IoT for All Platform. The system allows for offline assets to be added and displayed on the software as part of the asset management service to our clients.



TRADING
SECRETE STEPS TRADING (PTY) LTD

Master Dashboard | System Manager | LMS Dash | EMS Dash | Gateway Dash | Override Dash | Combo Sensor Dash | Task Dash | Logout, User XXXX

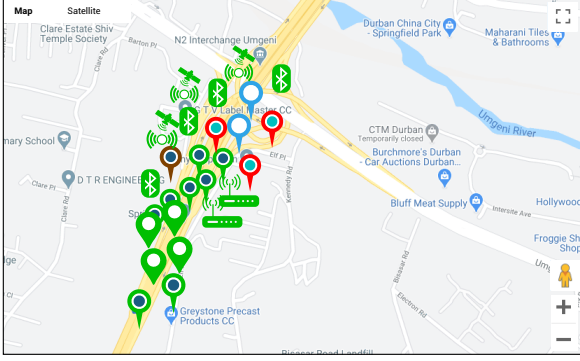
MASTER DASH BOARD



AREA GROUP/S: Area A Area B Area C Area D

Type here to search

ALARMS / ALERTS / GENERAL INFORMATION



Enclosure Controller (Map icon)

Light Controller (Map icon)


Light Status (Map icon)

Gateway (Map icon)


Combo Sensor (Map icon)

BLE Override Unit (Map icon)


Status of Devices




HEALTHY DEVICES




DEVICE ALARMS




DEVICE POWER ALERTS




DEVICE COMM. ALERTS




DEVICE BATTERY ALERTS



LIGHTS ON DURING SCHEDULE



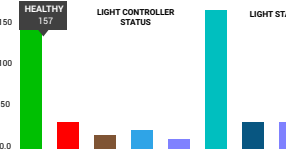
LIGHTS OFF DURING SCHEDULE



USER AUTHN. COMMAND

LIGHTING MANAGEMENT SYSTEM STATUS Installed 163

HEALTHY 157




LIGHT CONTROLLER STATUS

LIGHT STATUS

LIGHTING MANAGEMENT ENERGY USAGE STATUS Installed 16 950W


OFF 15 200

ON 1 750



GATEWAY MANAGEMENT SYSTEM STATUS Installed 15


HEALTHY 12



COMMAND 02

ENCLOSURE MANAGEMENT SYSTEM STATUS Installed 28

HEALTHY 28

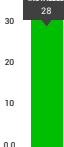


ALARMS 05

POWER 02

BLUE-TOOTH (BLE) DEVICES Installed 28


HEALTHY 28



COMMAND 02

INFRASTRUCTURE SENSOR MANAGEMENT SYSTEM STATUS Installed 148

HEALTHY 101



ALARMS 22

BATTERY 02

ALARMS / ALERTS / FAULTS

ALARMS RECEIVED	38
ALARMS ATTENDED TO	10
ALARMS OUTSTANDING	28
ALERTS / FAULTS RECEIVED	15
ALERTS / FAULTS ATTENDED TO	13
ALERTS / FAULTS OUTSTANDING	02

WORK ORDER MANAGEMENT

ISSUED	20
RETURNED	14
OUTSTANDING	06
CAPTURED	11
NOT CAPTURED	09

ASSET LIST MANAGEMENT
Asset Register

TOTAL NUMBER OF DEVICES	7368
Gateways	55
Override Units	3574
Combo Sensors	85
Light Controllers	165
Enclosure Controllers	3489

PROTECT, CONTROL, MONITOR & MANAGE YOUR ASSETS INTELLIGENTLY FROM ONE PLATFORM

COMPANY PROFILE | SECRETE STEPS TRADING (PTY) LTD | WWW.SSTRADING.CO.ZA | 011 394 0902

14

SMART LIGHTING SERVICES



COMPLETE END-TO-END INTELLIGENT LIGHTING SOLUTIONS

11

SMART LIGHTING SOLUTIONS

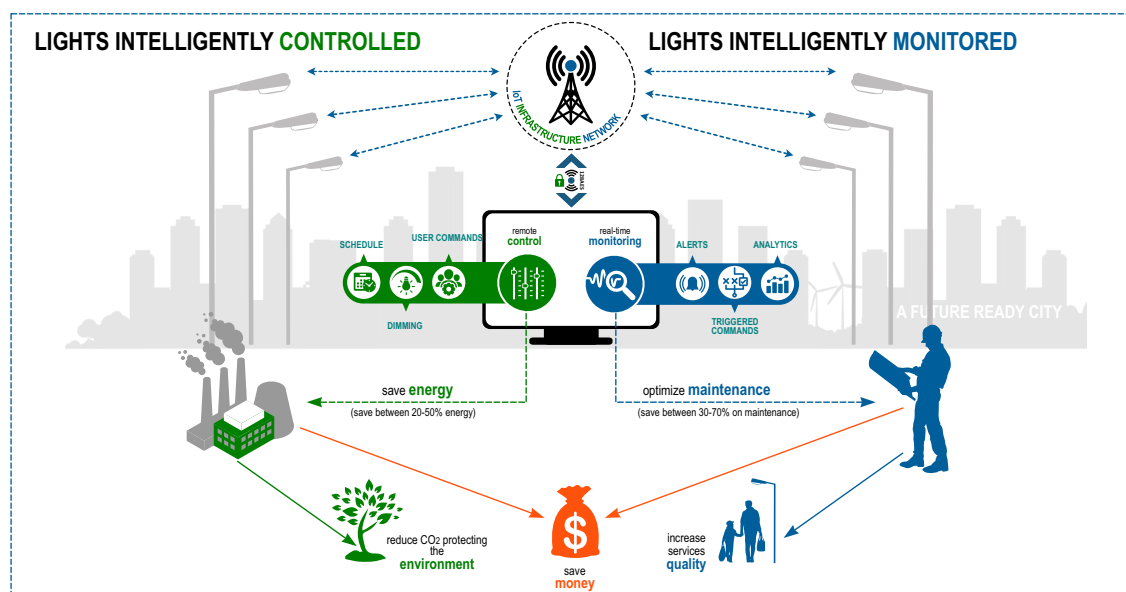
The Lighting Network of a Utility provides a number of important benefits. **It is used to promote security in urban areas and in general**, and to increase the quality of life by artificially extending the hours in which it is light so that activity can take place.

Street lighting also improves safety for drivers, riders, and pedestrians. Driving outside of daylight hours is more dangerous as pedestrians and vulnerable road users suffer from decreased visibility in the dark.

Smart LED lights are public lighting fixture that incorporates technology, such as light-sensing photocells, sensors, light controllers to introduce real-time monitoring & controlling functionalities.

Smart street and area lights transform the way Municipalities & Utilities manage cities while delivering enormous savings. Street and area lighting can account for nearly 30-40 percent of many cities' total energy costs. Local governments and utility providers are seeking alternative ways to decrease energy usage and reduce costs. Replacing traditional HPS (High-Pressure Sodium with Smart LED luminaires can help achieve that goal by delivering immediate savings through reduced energy use.

Installing smart LEDs can generate an additional 10 to 20 percent savings by adjusting output to ambient light levels, dimming, or brightening as needed, or set to turn on only by motion detection, and then dim or turn off after a specific amount of time when there is no motion detected or through a user-determined software program.

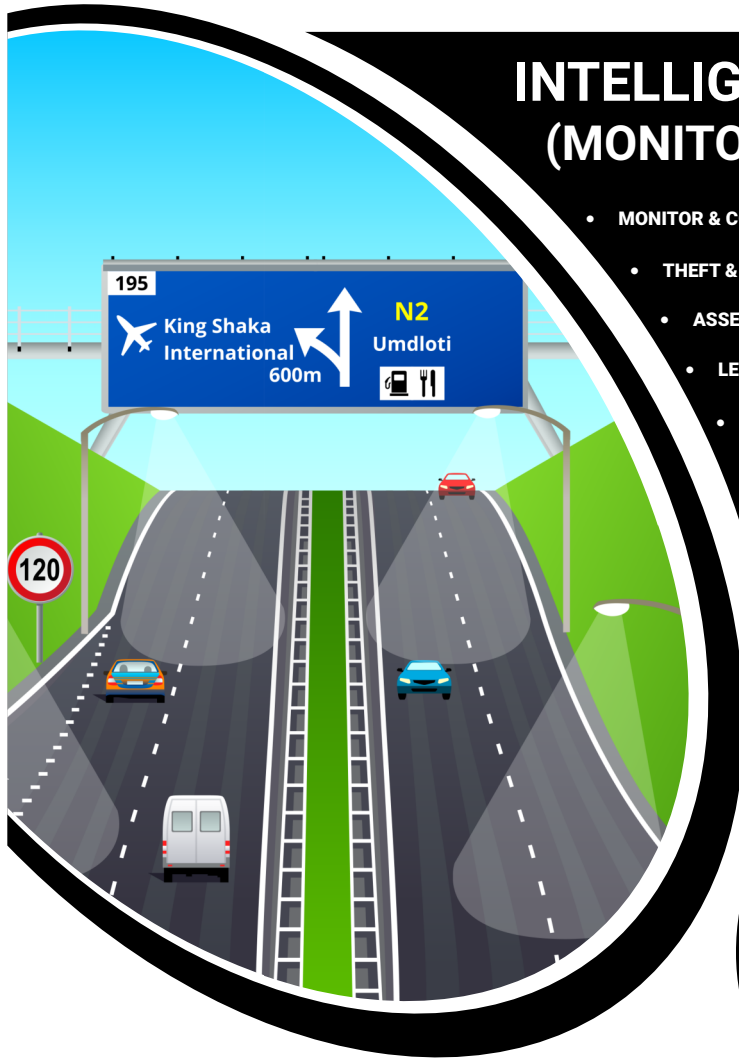


WITHOUT A LIGHTING MANAGEMENT SYSTEM IN PLACE, DETECTING & ADDRESSING ISSUES CAN BE COSTLY & TROUBLESOME. Issues can only be identified through proactive day and night patrols or by citizen complaints. These methods do not identify issues quickly, cause public safety issues due to improperly lit streets, increase costs significantly, and are frustrating for everyone involved.

Once an issue is identified, **the lack of a lighting management system usually means** that there is little information available about the equipment that needs to be maintained. Even determining the location of the streetlight requiring repair is often an issue and maintenance crews can spend valuable time "fixing" the wrong streetlight.

The result is that more resources on average are required to inspect, diagnose, and fix a standard streetlight issue, which **increases the cost of the repair and the length of time** that residents live with improper and possibly unsafe lighting.

LED Smart lighting and communication networks + an Intelligent Lighting Management System are transforming street and area lighting. Therefore, municipality lighting networks are becoming the platform for a wide variety of smart city innovations. The vision of the city lighting network as a smart city platform is the next frontier for street and area lighting.



INTELLIGENT LIGHTING (MONITOR & CONTROL)

- MONITOR & CONTROL STREET-LIGHTS, MAST-LIGHTS
- THEFT & VANDALISM PREVENTION / DETECTION
- ASSET & MAINTENANCE MANAGEMENT
- LED LIGHTS (FULL MONITOR & CONTROL)
- REMOTELY DIAGNOSE ISSUES
- INTERNET OF THINGS TECHNOLOGY
- SECURE CLOUD BASED SOFTWARE
- SOLAR LIGHTING MANAGEMENT
- REDUCE ENERGY BILLS

KEY FEATURES

- SECURE MONITORING 
- SECURE CONTROL 
- ALARMS / ALERTS 
- REPORTS / LOGS 

- **A Firm and Secure Network**
- Extend Equipment Life Span
- **Improved Asset Management**
- Feasible Return on Investment
- **Increased Quality Service Delivery**
- Eliminating Non-Technical Losses
- **Maintenance & Repair Costs Reduction**
- Increased Staff Efficiency / Skills Development
- **Integrate Other IoT Sensors and Applications Easily**
- Saving Energy (Remote Dimming Profile Management)
- **Effective Remote Monitor & Control of Lighting Systems**
- Reducing Energy Bills (Power Consumption Management)
- **Operate & Maintain Your Lighting Network More Effectively**
- **The System is part of the Intelligent IoT Solutions Network System**
- **Early Detection & Warning of Equipment Theft / Vandalism / Tampering**

BENEFITS
 BENEFITS
 BENEFITS
 BENEFITS
 BENEFITS



Electrical enclosures are housing expensive electrical and electronic equipment. Their purposes are to enhance security and safety, protect equipment from unauthorized handling, tampering, vandalism, theft, and the environment, and protect people against equipment from an electric shock and possible explosions).

By intelligently protecting, controlling, and monitoring enclosures, substations, buildings, high masts against harsh environmental elements, and implement superior physical security and protection against intrusion, vandalism, tampering, and theft would result in lowering energy usage, operational, and capital cost outflows which are a direct improvement in the balance sheet of the Municipality. These savings (energy, operational & capital) would become available for other applications in the Municipality that will directly stimulate growth and development.

An Intelligent Infrastructure Management System (IIMS) related to smart enclosure, substation/building/high mast technical and security infrastructure, is a **24/7 auto intelligent network-based** control, monitoring, managing, reporting, and recording solution that incorporates communication between various system inputs and outputs related to infrastructure control, monitoring, and reporting the status and performance with the use of one or more central computing devices.

The intelligent infrastructure management system brings energy and cost savings and can shorten the payback period of projects. An infrastructure management system can significantly improve the quality of electricity services, improve public safety, enhance security, and provide a foundation for additional Smart City improvements and Citizen Benefits.



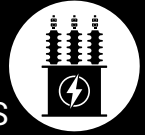
Manufacturing, Installation, Maintenance, and Repairs of:

- ▶ **Metering Enclosures / Metering Kiosks** (Pole & Ground Mounted)
- ▶ **Distribution Enclosures / Distribution Kiosks** (Pole & Ground Mounted)
- ▶ **Mini-Sub Enclosures / Mini-Sub Kiosks**
- ▶ **Street light Controller Enclosures** (Pole & Ground Mounted)
- ▶ **Traffic light Controller Enclosures** (Pole & Ground Mounted)
- ▶ **Electrical boundary enclosures** (Pole & Ground Mounted)
- ▶ **MV Ring Main Unit Enclosures**
- ▶ **Electrical wall mount distribution enclosures**
- ▶ **Free standing distribution enclosures**



SUBSTATION SERVICES

COMPLETE END-TO-END INTELLIGENT SUBSTATION SOLUTIONS



13

We provide comprehensive electrical substation services for low, medium, and high voltage (Up to 132kV), transmission, and distribution systems. Our broad experience working with public utilities, municipalities, and independent developers makes us uniquely qualified to meet the challenges of your transmission or distribution project. We specialize in providing fast, reliable grid connections.

SS Trading is always up for a good challenge. Over the years, we have built our expertise and capability through low, medium to high voltage substation construction, upgrade, and maintenance projects. Our customers span over industrial and commercial businesses, developers, public utilities, wind farms, and municipalities.



SUBSTATION SERVICES

FOR SUBSTATIONS UP TO 132kV:

- ▶ **Substation Building Construction**
- ▶ Civil Works, and erection of steel structures, and fencing
- ▶ **Installation of Equipment**
- ▶ Stringing of droppers, and overhead conductors
- ▶ **LV, MV, HV Cabling:** Installation, joining, termination, fault location, testing, and commissioning
- ▶ Infra-red Scanning and hot connection repairs
- ▶ **Inspections, maintenance, and repairs** (Including building, yard, and external equipment)
- ▶ Earth Mat, and Structure Earthing, Repairs, Maintenance, Test and installations
- ▶ **Power Transformer Repairs, Maintenance, and Installation up to 30MVA**
- ▶ Substation Access Control and Monitoring including CCTV

SMART REVENUE SERVICES



COMPLETE END-TO-END INTELLIGENT REVENUE SOLUTIONS

14

SMART REVENUE SERVICES

OUR UTILITY REVENUE AND ASSET MANAGEMENT TURNKEY SOLUTION: Protection, Prevention, Detection, Control, Monitoring, Responding To and Recovery of Non-technical Losses Caused By Interference With Utility Services.

BACKGROUND OVERVIEW: Non-Technical Losses continue to be a challenge and prevent more than often that Utilities can deliver acceptable levels of Safe and reliable Services and collect revenue for services delivered.

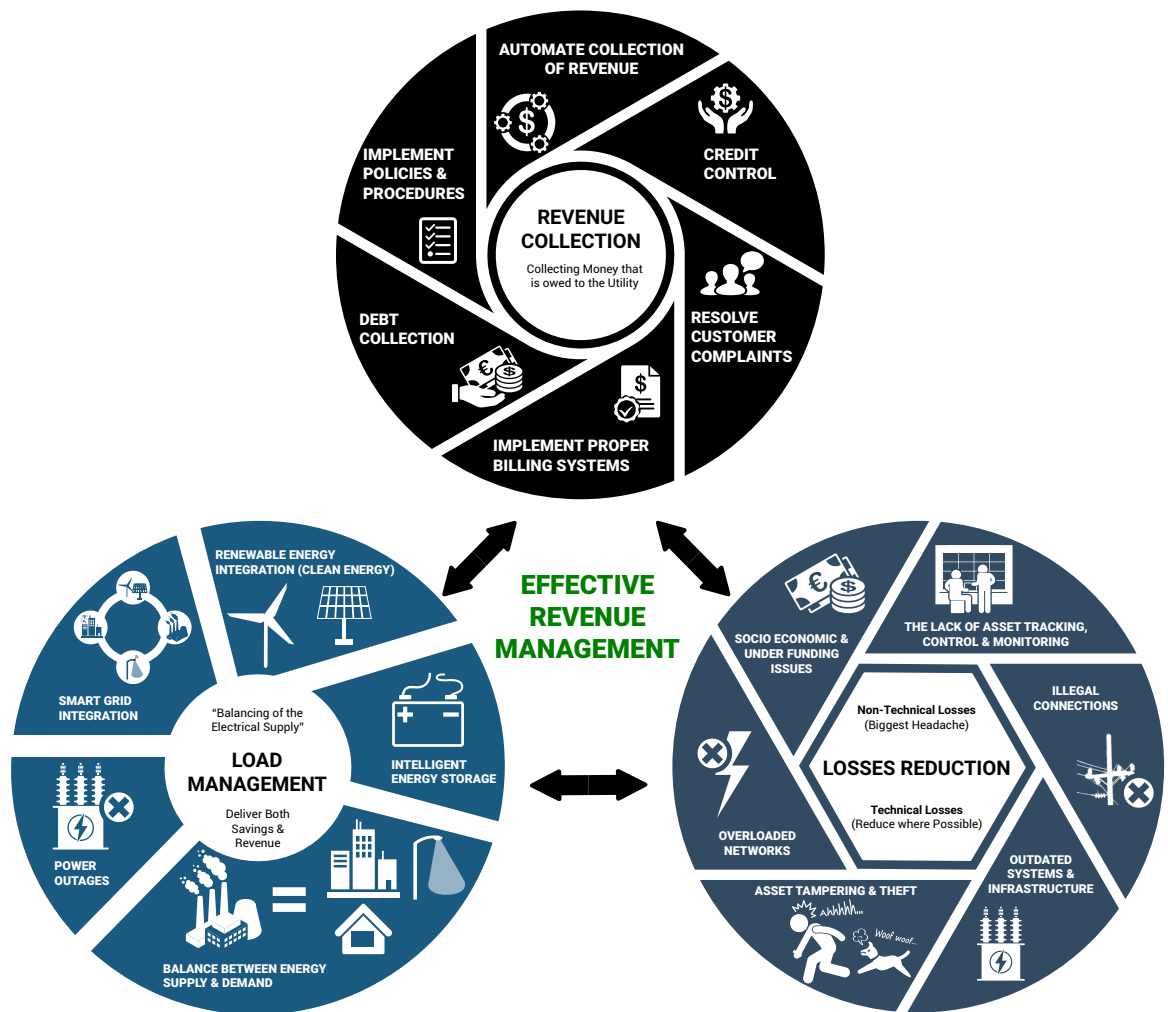
Large number of Electricity Networks are unsafe, unreliable and Revenue Losses continue daily crippling certain Utilities to a level that it is not sustainable any more.

Unsafe electricity networks are unreliable, killing innocent people, destroys infrastructure and Revenue Losses continue daily crippling the Utilities to a level that it is not sustainable any more.

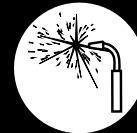
We have developed a complete all-in-one revenue and asset management turnkey solution system that targets directly Non-Technical Losses, that will guarantee results and positively turnaround any utility's revenue situation and ensure that it remains sustainable for many years to come.

Non-Technical Losses from **internal process** issues (inaccurate billing information, defective meters, etc.) and **external issues** (electricity / water theft, vandalism, corruption, tampering, undetected load etc.) and cannot always be directly measured, but can be estimated, continue to be a mayor challenge and prevent more than often that Utilities can deliver acceptable levels of Safe and reliable Services and collect revenue for services delivered.

High levels of electricity theft / illegal connections (unregistered load), meter tampering, criminal activities etc. these are the most prominent causes of non-technical losses



SHEET METAL FABRICATION



COMPLETE END-TO-END MANUFACTURING SOLUTIONS

15

MANUFACTURING SERVICES

Perfectly complementing our product design engineering department, metal cutting forming, finishing, and product assembly services, metal fabrication is where individual parts, made from mild steel, stainless steel, are welded together, finished, and dressed in readiness for finishing with powder coating or spray painting. Coupled with a high level of expertise, steel fabricators deliver the highest standards in welding and finishing, ensuring that we offer you high-quality parts or components through to fully finished products every time.

As part of the metal fabrication process, dressing welded metal parts to ensure a visually pleasing finish. The finishes available to our clients can match an original grained appearance or include the application of different decorative finishes to prepare the item for colour application using our in-house powder coating equipment.

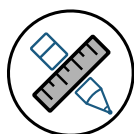
Metal fabrication refers to a set of methods used to shape metal materials. Sheet metal fabrication uses a range of tools and techniques to alter and control the shape of the material, creating new components and custom parts.

The key distinction is that fabrication is not about producing complete machinery or complex products. It is a method of creating components to exact specification, using raw materials with desired qualities. It is often used with sheet metal, for example, because various metals have unique qualities, besides strength and durability, that are ideal in various industries and sectors.

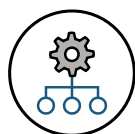
SS Trading has the engineering capacity to fulfill customer requirements with agility and speed. With extensive in-house capabilities and state-of-the-art technology, SS trading truly is your one-stop metalwork partner.

PRODUCT RANGE (NOT LIMIT TO..)

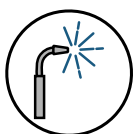
- ▶ **Metering Enclosures / Metering Kiosks**
- ▶ Distribution Enclosures / Distribution Kiosks
- ▶ **Mini-Sub Enclosures / Mini-Sub Kiosks**
- ▶ Street light Controller Enclosures
- ▶ **Traffic light Controller Enclosures**
- ▶ Secure Mast Entrance Doors
- ▶ **Pole Mounted Electrical Enclosures**
- ▶ MV Ring Main Unit Enclosures
- ▶ **Electrical wall mount distribution enclosures**
- ▶ Free standing distribution enclosures
- ▶ **Secure Substation entrance doors**



DESIGN & ENGINEERING



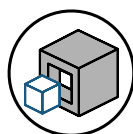
PROCESS MANAGEMENT



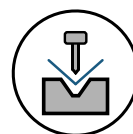
FABRICATION



FINISHING



CUTTING & PUNCHING



FORMING



ASSEMBLY & INSTALLATION



The successful implementation of a project relies on the careful planning, organization, and management of resources. Our Project Management function provides an "implementation road map" that is easy to follow and should lead to a successful installation of our products and services - on time and within the budget.

Our Project Managers are trained to ensure your system implementation goes as planned. Through their knowledge, skills, tools, and techniques, they work in partnership with clients to ensure the project meets their requirements.

The successful implementation of a project relies on the careful planning, organization, and management of resources. Our Project Management function provides an "implementation road map" that is easy to follow and should lead to a successful installation of our products and services - on time and within the budget.

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"Your Project in good hands"

ASSET MANAGEMENT

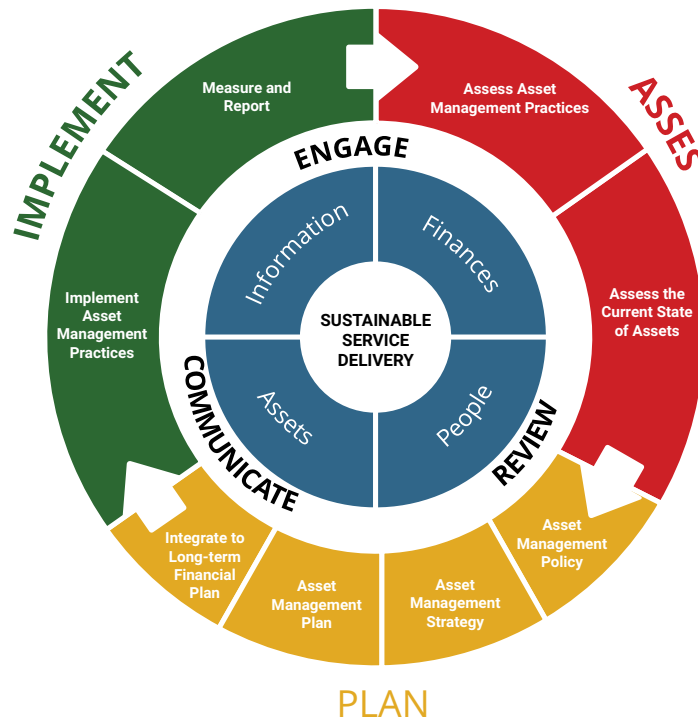


COMPLETE END-TO-END ASSET MANAGEMENT SOLUTIONS

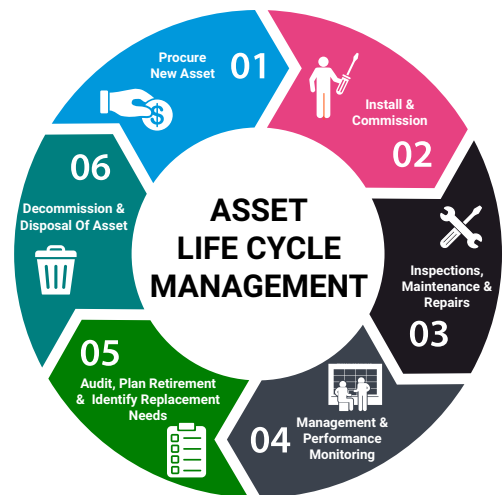
17

ASSET MANAGEMENT SERVICES

Our Asset management system monitors and maintains your assets to achieve the greatest return (particularly useful for productive assets such as plant and equipment), and the process of monitoring and maintaining facilities systems, with the objective of providing the best possible service to users (appropriate for public infrastructure assets).



- **Asset Identification and Verification**
- Asset bar coding and compiling of asset register
- **Asset assessments**
- Asset maintenance development plan
- **Asset care awareness**
- Maintenance cost reduction (Work smarter not harder)
- **Optimum use of available resources**
- Asset register administration
- **Maintenance schedule planning, monitoring and evaluation**
- Policy and procedure standardization across the business



"Your Assets in good hands"



We boast an impressive fleet of specialised vehicles, construction vehicles, machinery and equipment to satisfy all your electrical needs.

It is our firm believe that the correct tool, vehicle or equipment must be used for a specific task to ensure the correct quality is delivered every time on time.

We are proud of our vast range of vehicles, equipment and tools we possessed, we are well equipped to tackle any project head on and ensure the client that we can deliver with the highest quality in mind on time every time.

- ▶ **Tipper Trucks (3Ton to 15 Ton)**
- ▶ Hydraulic Crane Trucks (10 Ton)
- ▶ **Elevated Hydraulic Platforms (Cherry Pickers)**
- ▶ Earth Moving Machinery (TLB) (Loaders and Excavators)
- ▶ **Pick-Up Vehicles and Trailers**
- ▶ Crew Cabs, Cable Drum Cars, Cable Rollers
- ▶ **Small Excavators**
- ▶ Augers for pole holes, Horizontal Earth Drilling Equipment for sleeves
- ▶ **Compressors, Water Pumps, Tar Road Cutters**
- ▶ Compactors, Jack Hammers, Augers, Horizontal Earth Drilling Equipment
- ▶ **Hydraulic Puller and Tensioner Machines for Overhead Lines up to 400kV lines**
- ▶ Overhead line stringing equipment
- ▶ **Drilling Machines**
- ▶ Grinders, welding machines
- ▶ **Hydraulic Crimper's**
- ▶ Hand Crimper's
- ▶ **High Quality Step Ladders**
- ▶ Sophisticated Hand Held GPS Devices
- ▶ **Safety Equipment**
- ▶ Link Sticks
- ▶ **State of the art Testing Equipment (Cable fault locators & tracers)**
- ▶ Picks and shovels
- ▶ **Barricading Boards, Heavy Duty Road Barriers**
- ▶ Cable Rollers
- ▶ **Complete Artisan Tool Boxes**
- ▶ Winches
- ▶ **Lever Hoists**
- ▶ Safety Harnesses



.....and so much more"

PROJECT REFERENCES

SMART & INTELLIGENT INTEGRATED MANAGEMENT



19

PROJECT REFERENCES (2020 to 2023)



Project : Soetwater Wind Farm (Close to Sutherland) 33kV Overhead Line Construction
Client : **WBHO** (Michael Venter - 082 926 0638) | michael.venter@wbho.co.za
Period : 2021
Brief Description : 33kV Overhead Line Construction
Contract Number : 61680
Estimated Value : (±R17 000 000)

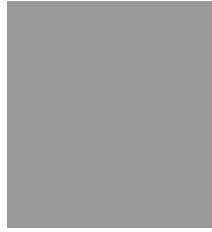
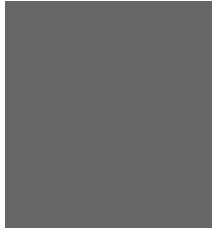
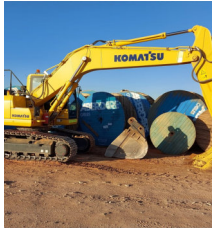
Project : **Garob Wind Farm (Close to Copperton) 33kV Cable Reticulation**
Client : **ADENCO Construction** (Bertus Opperman - +27 61 549 8673 or +27 21 905 5707)
Period : 2019 - 2021
Brief Description : 33kV Collector Cable Reticulation
Contract Number : ZA1008326SUB7
Estimated Value : (±R32 000 000)

Project : **Garob Wind Farm (Close to Copperton) 132kV Overhead Line Construction**
Client : **ADENCO Construction** (Bertus Opperman +27 61 549 8673 or +27 21 905 5707)
Period : 2019 - 2021
Brief Description : 132kV Overhead Line Construction
Contract Number : ZA1008326SUB7
Estimated Value : (±R16 000 000)

Project : **Street and Area Lighting Repairs & Maintenance in CoE**
Client : **CoE** (Sisanda Maya - sisanda.maya@ekhurleni.gov.za)
Period : 2021 - 2023
Brief Description : Repair & Maintenance of street, sports & public spaces lighting within CoE
Contract Number : A-EE 06-2020
Estimated Value : Project Not Yet Completed

Project : **MV & LV Infrastructure at Emabhekazi (KZN)**
Client : **Eskom - New Germany** (Nolindo Mdzamela | nodadanz@eskom.co.za)
Period : 2021
Brief Description : MV & LV Network Installations and Electrification of ±405 Connections
Contract Number : 4503044143
Estimated Value : (±R5 200 000)

Project : **MV & LV Infrastructure at Oqungweni - Ladysmith (KZN)**
Client : **Eskom - New Germany** (Nkosininathi Ncama | NcamaN@eskom.co.za)
Period : 2021
Brief Description : MV & LV Network Construction
Estimated Value : (±R6 300 000)



Project : **Supply Protective Metal Enclosures**
Client : **Mzunduzi Municipality** (D N Gambu - 033 392 2597) | dudu.ndlovu@msunduzi.gov.za
Period : 2020 - 2023
Brief Description : The Supply of Metal Enclosures
Contract Number : No.34 of 2020
Estimated Value : Project Not Yet Completed

Project : **Substation Upgrade - Afgri Operations Delmas**
Client : **Eskom - Mpumalanga** (Bafana Sithole / Zodwa Moloi - SitholeBd@eskom.co.za)
Period : 2020
Brief Description : Substation Upgrade, including Busbars, Feeder Bays, and associated equipment
Estimated Value : (±R2 000 000)

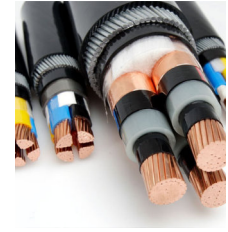
Project : **Street-light Repairs & LMS Implementation (N2 Umdloti to Tongaat)**
Client : **SANRAL (KZN)** / DNA Consulting Engineers (Des Naidoo - 083 799 4578)
Period : 2019 - 2020
Brief Description : Repairs of Street-lights & the implementation of an IoT Smart Lighting Management System
Contract Number : N02-267-2017/2
Estimated Value : (±R7 500 000)

Project : **Street-light Repairs & LMS Implementation (N2 Umgeni Interchange)**
Client : **SANRAL (KZN)** / DNA Consulting Engineers (Des Naidoo - 083 799 4578)
Period : 2019 - 2020
Brief Description : Repairs of Street-lights & the implementation of an IoT Smart Lighting Management System
Contract Number : NRA X004-034/2015/1
Estimated Value : (±R7 500 000)

Project : **Ferrum Kathu 66kV Overhead Lines Deviations**
Client : **Eskom - Northern Cape** (Mashiase Matshediso - 071 844 5451 | mkhwanmp@eskom.co.za)
Period : 2019 - 2020
Brief Description : 66kV Overhead Line Work
Estimated Value : (±R8 400 000)

Project : **Kleinkopje Substation 132kV/22kV Refurbishment**
Client : **Eskom - Mpumalanga** (Sammy Mtsweni - 013 240 7931) | mtswenma2@eskom.co.za
Period : 2019
Brief Description : Refurbishment, Maintenance and Repairs of the 132kV/22kV Kleinkopje Substation
Estimated Value : (±R7 200 000)

Project : **MV & LV Infrastructure at Mayfield / Mbungulu (KZN)**
Client : **Eskom - New Germany** (Dimakatso Mashego | mashegod@eskom.co.za)
Period : 2019
Brief Description : MV & LV Network Installations and Electrification of ±405 Connections
Contract Number : 4600062114/7
Estimated Value : ±R2 200 000



- Project** : **MV & LV Infrastructure at Dukuduku (KZN)**

Client : **Eskom - New Germany** (Thandeka Motaung | motaunts@eskom.co.za)

Period : 2019

Brief Description : MV & LV Network Installations and Electrification of ±820 Connections

Contract Number : 4600062114/6

Estimated Value : ±R6 400 000

- Project** : **HV Cable Repairs in Ethiopia (Consolidated Power Projects Group Africa LTD)**

Client : **Conco** (Andre Swanepoel | andre.swanepoel@concogrp.com)

Period : 2018 - 2019

Brief Description : HV Cable (132kV) Repairs and Testing

Estimated Value : ±R1 300 000

- Project** : **Bush-buck Ridge Electrification**

Client : **Eskom** (Bernedene Shabalala - shabalbn@eskom.co.za)

Period : 2018

Brief Description : Electrification of ±59 stands in Bush-buck Ridge

Contract Number : 4600062459

Estimated Value : ±R561 000

- Project** : **MV Cable Installation (Sapref - KZN)**

Client : **Aberdare Cables** (Khris Yankana - 011 396 8000 | kyankana@aberdare.co.za)

Period : 2018

Brief Description : Installation of MV Cable

Estimated Value : ±R742 888

- Project** : **Air Brake Switches Eskom Witbank**

Client : **Eskom** (Charles Sambo - 012 421 3382 / 082 381 4710)

Period : 2018

Brief Description : Repair and Maintenance of Air Brake Switches

Contract Number : 4600062404

Estimated Value : ±R1 600 000

- Project** : **Maintenance of Underground Cable Networks from 33kV up to 132kV**

Client : **City of Ekurhuleni** (Siphokazi - 011 999 6556 | siphokazi.xokozela@ekurhuleni.gov.za)

Period : 2018 - 2020

Brief Description : Repairs & Maintenance of underground cables from 33kV up to 132kV including fibre optic

Contract Number : A-EE 24-2017

Estimated Value : ±R3 500 000

- Project** : **Strategic Civil works Witbank Eskom Substation**

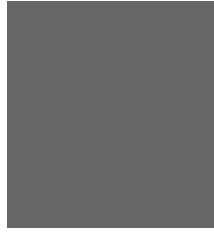
Client : **Eskom** (Percy Kamanga - kamangp@eskom.co.za)

Period : 2018

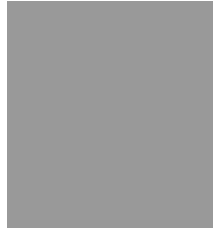
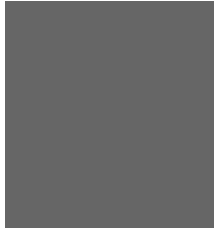
Brief Description : Bulk earthworks, paving, catch pits etc.

Contract Number : 4600062404

Estimated Value : ±R4 200 000



- Project** : **Bosloop Pump Station and Plant Upgrade (Badplaas, Mapumulanga)**
Client : **Eskom** (Charles Sambo - 082 381 4710 | samboco@eskom.co.za)
Period : 2018
Brief Description : Refurbishment of the Bosloop pump station and plant upgrade including Civil Works
Contract Number : 4600062404
Estimated Value : ±R4 522 000
- Project** : **Repairs and Maintenance of 132kV XLPE Power Cables**
Client : **Ethekwini Municipality** (Coen Boshoff - coen.boshoff@cbi-electric.com)
Period : 2018
Brief Description : Repairs and Maintenance of 132kV XLPE Power Cables
Estimated Value : ±R11 000 000
- Project** : **Manufacture and Supply of Secure Remote Controlled Enclosures**
Client : **City of Ekurhuleni** (Hendrik Marx - 011 999 5793 | hendrik.marx@ekurhuleni.gov.za)
Period : 2017 - 2020
Brief Description : Manufacture, Supply and Deliver Secure Remote Controlled Enclosures
Contract Number : A-EE 15-2017
Estimated Value : ±R11 000 000
- Project** : **Replacements of Lamps and Luminaires, Maintenance and Repairs**
Client : **Msunduzi Municipality** (Poovan Naidoo - 033 392 5069 | poovan.naidoo@msunduzi.gov.za)
Period : 2017 - 2020
Brief Description : Repairs and Maintenance of Street-light Networks
Contract Number : E38 of 2017
Estimated Value : ±R2 000 000
- Project** : **MV and LV Electrical Network Maintenance and Repairs**
Client : **Msunduzi Municipality** (Poovan Naidoo - 033 392 5069 | poovan.naidoo@msunduzi.gov.za)
Period : 2017 - 2020
Brief Description : Maintenance and repairs of MV and LV Networks
Contract Number : E36 of 2016
Estimated Value : ±R 5 000 000
- Project** : **Road Lighting & Electrical Reticulation for phase 1 of Ekurhuleni IRPTN**
Client : **City of Ekurhuleni** (Dorothy Mabuza - 011 999 6194 | dorothy.mabuza@ekurhuleni.gov.za)
Period : 2016 - 2018
Brief Description : Installation of ±1 200 LED Luminaires, Enclosures, Access Control System
Contract Number : A-PT 04-2015
Estimated Value : ±R55 000 000
- Project** : **Maintenance and Repairs of LV / MV Cable Networks**
Client : **City of Ekurhuleni** (Hendrik Marx - 011 999 5793 | hendrik.marx@ekurhuleni.gov.za)
Period : 2016 - 2018
Brief Description : Repair and Maintenance of MV and LV Cable Networks
Contract Number : A-EE 15-2015
Estimated Value : ±R11 000 000



Project : **Electrification Projects**
Client : **City of Ekurhuleni** (N Mokgosi - 011 999 5373 | nonhlanhla.mokgosi@ekurhuleni.gov.za)
Period : 2016 - 2018
Brief Description : Electrification of ±7 400 Stands
Contract Number : A-EE 18-2016
Estimated Value : ±R200 000 000

Project : **Sidwadwa 66/11kV (2 x 20MVA Substation Refurbishment)**
Client : **King Sabata Dalindyebo Municipality** (ZH Mdikane - salomep@ksd.gov.za)
Period : 2016 - 2017
Brief Description : Substation Equipment Refurbishment
Contract Number : SCM: 31-2015/2016
Estimated Value : ±R28 300 000

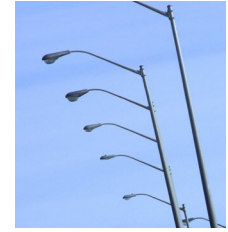
Project : **Construction of 66kV Overhead Powerlines**
Client : **King Sabata Dalindyebo Municipality** (ZH Mdikane - salomep@ksd.gov.za)
Period : 2016 - 2017
Brief Description : Construction of 66kV Overhead Powerlines
Contract Number : SCM: 31-2015/2016
Estimated Value : ±R21 000 000

Project : **Supply, Deliver & Off-loading of Various Types of Meter Kiosks**
Client : **City of Ekurhuleni** (Sipokazi - 011 999 6556 | siphokazi.xokozela@ekurhuleni.gov.za)
Period : 2015 - 2017
Brief Description : Supply, deliver & Off-loading of Various Types of Meter Kiosks
Contract Number : A-EE18/2014
Estimated Value : ±R1 300 000

Project : **Construction of a 11kV Secondary Cable Ring**
Client : **Kwadukuza Municipality** (Sean Bartlett - sean.bartlett@aurecongroup.com)
Period : 2015 - 2016
Brief Description : Reticulation of 11kV Cables to complete a ring feed
Contract Number : MN 136/2014
Estimated Value : ±R6 200 000

Project : **MV Overheadline Construction**
Client : **Matatiele Local Municipality** (Nadeem - Bigen Africa - 031 717 2572)
Period : 2015 - 2016
Brief Description : Construction of ±16km of MV Overheadlines
Contract Number : 2308-12-00
Estimated Value : ±R5 100 000

Project : **Kiepersol Substation Refurbishment**
Client : **Grokor Africa** (Eskom Project) (Maverett Koetz - 072 657 8872)
Period : 2015 - 2016
Brief Description : Rebuild 66kV Sub to 132kV, Install 1 x 20MVA & 2 x 10MVA Transformers
Contract Number : NE-STM-0905-1088-00001
Estimated Value : ±R7 300 000



Project : **Manufacturing and Supply of Metering Enclosures**
Client : **Ba Tsonga** (Lucky Mampane - 011 039 5048)
Period : 2015 - 2016
Brief Description : Manufacturing of Pole Mounted Metering Enclosures
Estimated Value : ±R2 263 000

Project : **Supply and Installation of New Street-light Poles, Luminaires & Cable**
Client : **City of Ekurhuleni** (Hendrik Marx - 011 999 5793 | hendrik.marx@ekurhuleni.gov.za)
Period : 2014 - 2016
Brief Description : Supply and Installation of New Street-light Poles, Luminaires & Cable
Contract Number : A-EE 18/2013
Estimated Value : ±R 223 500

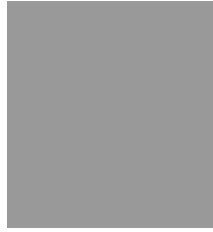
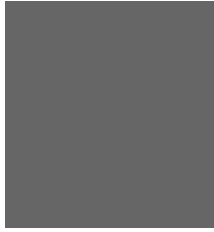
Project : **Preventative Maintenance & Repairs on MV Networks**
Client : **Department of Public Works (Freestate)** (Wayne Hurst - wayne.hurst.dpw.gov.za)
Period : 2014 - 2016
Brief Description : Preventative Maintenance & Repairs on MV Networks
Contract Number : BL13/143
Estimated Value : ±R94 900

Project : **Primary, Secondary and Mini-Substation Inspections**
Client : **City of Ekurhuleni** (Sipokazi - 011 999 6556 | siphokazi.xokozela@ekurhuleni.gov.za)
Period : 2014 - 2016
Brief Description : Primary, Secondary and Mini-Substation Inspections
Contract Number : A-EE 12/2013
Estimated Value : ±R1 580 000

Project : **Network Maintenance & Repairs, Electrification & Construction**
Client : **Lesedi Local Municipality** (Isaac Rampedi - 016 340 4308)
Period : 2014 - 2016
Brief Description : Network Maintenance & Repairs, Electrification & Construction
Contract Number : E-ES17/2014
Estimated Value : ±R165 000

Project : **Substation Refurbishment (Zamokuhle Substation)**
Client : **Eskom** (Percy Kamanga - kamangp@eskom.co.za)
Period : 2014 - 2016
Brief Description : Substation Refurbishment
Contract Number : 4600056402
Estimated Value : ±R10 270 000

Project : **Msunduzi Municipality 1000mm² Single Core Cu Cable Installation (±8000m x 3)**
Client : **CBI African Cables** (Johan Oosthuizen - 083 635 8582)
Period : 2014 - 2015
Brief Description : Cutting of tar roads and the installation of 132kV Single Core 1000mm² Cu Cable
Estimated Value : ±R11 500 000



Project : **Leslie Wildebees 132kV Line**
Client : **Grokor Africa** (Eskom Project) (Maverett Koetz - 072 657 8872)
Period : 2014 - 2015
Brief Description : Erection of 132kV Overhead Lines in Kinross, Secunda
Estimated Value : ±R18 000 000

Project : **Low Voltage and Medium Voltage Cable Repairs (CoE)**
Client : **Umzantsi Afrika** (Moses Moeletsi - 082 803 7700)
Period : 2014
Brief Description : Low and Medium Voltage Cable Repairs
Contract Number : A-EE 12/2014
Estimated Value : ±R690 000

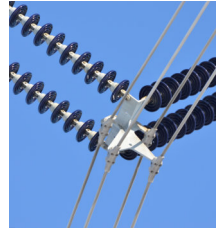
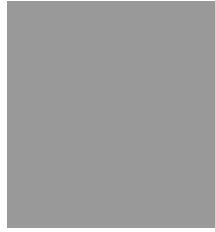
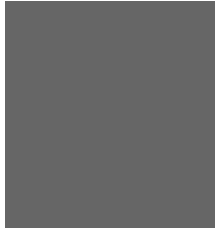
Project : **Maintenance and repairs of Substations and Mini-substations up to 132kV**
Client : **City of Ekurhuleni** (Johan Dreyer - 011 999 2338)
Period : 2013 - 2015
Brief Description : Maintenance and repairs of substations and mini-substations up to 132kV
Estimated Value : ±R13 700 000

Project : **Refurbishment of the Electrical LV Network in Leachville Ext.3**
Client : **City of Ekurhuleni** (Rudolph Filander - 011 999 7758)
Period : 2013 - 2014
Brief Description : Restitution of ±1080 Stands, Re-building of the 400V overhead networkk
Contract Number : A-EE 07/2012
Estimated Value : ±R7 500 000

Project : **Refurbishment of the Electrical LV Network in Barcelona, Kwa-Thema**
Client : **City of Ekurhuleni** (Peter Mtsweni - 011 999 7758)
Period : 2013 - 2014
Brief Description : Restitution of ±950 Stands, Re-building of the 400V overhead network
Contract Number : A-EE 07/2012
Estimated Value : ±R8 500 000

Project : **132kV Cable Installation - Isipingo**
Client : **CBI African Cables** (Johan Oosthuizen - 083 635 8582)
Period : 2013 - 2014
Brief Description : Installation of 132kV Cable
Estimated Value : ±R3 500 000

Project : **33kV Cable Installation - Ridgeview**
Client : **CBI African Cables** (Johan Oosthuizen - 083 635 8582)
Period : 2013 - 2014
Brief Description : Installation of 33kV Cable
Estimated Value : ±R2 500 000



Project : **LV Network Refurbishment, Repairs and Maintenance of the entire Ekurhuleni Metro**
Client : **City of Ekurhuleni** (Hennie Esterhuizen - 011 999 7758)
Period : 2012 - 2014
Brief Description : LV Network Refurbishment, Repairs and Maintenance of the entire Ekurhuleni Metro
Contract Number : A-EE 07/2012
Estimated Value : ±R129 220 000

Project : **Restitution of the Electrical Network in Langaville Ext.3**
Client : **City of Ekurhuleni** (Peter Mtsweni - 011 999 7758)
Period : 2012 - 2014
Brief Description : Restitution of ±1150 Stands, Re-building of the 11 000 / 400V Overhead Network
Contract Number : EE 10/2012
Estimated Value : ±R9 500 000

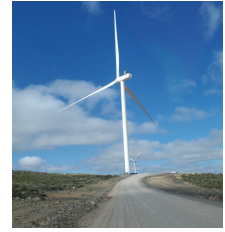
Project : **Restitution of the Electrical Network in Langaville Ext.7**
Client : **City of Ekurhuleni** (Peter Mtsweni - 011 999 7758)
Period : 2012 - 2014
Brief Description : Restitution of ±1270 Stands, Re-building of the 11 000 / 400V Overhead Network
Contract Number : EE 10/2012
Estimated Value : ±R12 500 000

Project : **Street & Area Lights Refurbishment, Repairs and Maintenance of the entire Metro**
Client : **City of Ekurhuleni** (Dawie Willemse - 011 999 3946)
Period : 2012 - 2014
Brief Description : Street & Area Lights Refurbishment, Repairs and Maintenance of the entire Metro
Contract Number : A-EE 01/2012
Estimated Value : ±R123 000 000

Project : **Durban 1000mm² Single Core Cu Cable Installation (±6000m x 3)**
Client : **CBI African Cables** (Johan Oosthuizen - 083 635 8582)
Period : 2012 - 2014
Brief Description : Installation of 132kV Single Core 1000mm² Cu Cable
Estimated Value : ±R20 000 000

Project : **Manufacture, Supply and Installation of Electrical Enclosures**
Client : **City of Ekurhuleni** (Bongani Nkambule - 011 999 5508 / 5713)
Period : 2012 - 2014
Brief Description : Manufacture, Supply and Installation of Electrical Enclosures
Contract Number : A-EE 03/2012
Estimated Value : ±R2 400 000

Project : **Refurbishment of the Electrical Network in Geluksdal Ext.2**
Client : **City of Ekurhuleni** (Rudolph Filander - 011 999 7758)
Period : 2012 - 2013
Brief Description : Electrification of ±1114 Stands, Re-building of the 400V Overhead Network
Contract Number : A-EE 07/2012
Estimated Value : ±R9 500 000



Project : Install 33kV, Single Core XLPE 500mm² AL (CoE - Van Eck to Geluksdal Subs)
Client : **CBI African Cables** (Piet Swanepoel - 078 459 3550)
Period : 2011 - 2012
Brief Description : Installation of ± 36 000m of 33kV, Single Core XLPE 500mm² AL
Estimated Value : ±R6 500 000

Project : Install 33kV, Single Core XLPE 500mm² AL (CoE - Van Eck to Vulcania South Subs)
Client : **CBI African Cables** (Piet Swanepoel - 078 459 3550)
Period : 2011 - 2012
Brief Description : Installation of ± 45 500m of 33kV, Single Core XLPE 500mm² AL
Estimated Value : ±R8 500 000

Project : **Substation and Mini-Substation Inspections**
Client : **City of Ekurhuleni** (Hennie Marx - 011 999 5793)
Period : 2010 - 2013
Brief Description : Primary, Secondary, Miniature Substation, Kiosk Inspections, & Complete Inspection Forms
Contract Number : A-EE 15/2010
Estimated Value : ±R800 000

Project : **LV Network Refurbishment, Repairs and Maintenance of the entire Ekurhuleni Metro**
Client : **City of Ekurhuleni** (Hennie Marx - 011 999 5793)
Period : 2009 - 2011
Brief Description : LV Network Refurbishment, Repairs and Maintenance of the entire Ekurhuleni Metro
Contract Number : A-EE 10/2009
Estimated Value : ±R85 000 000

Project : **Low Voltage and Medium Voltage Cable Repairs (CoE)**
Client : **Umzantsi Afrika** (Moses Moeletsi - 082 803 7700)
Period : 2009 - 2011
Brief Description : Low and Medium Voltage Cable Repairs
Contract Number : A-EE 01/2009
Estimated Value : ±R40 000 000

Project : **Substation and Mini-Substation Inspections**
Client : **City of Ekurhuleni** (Hennie Marx - 011 999 5793)
Period : 2008 - 2010
Brief Description : Primary, Secondary, Miniature Substation, Kiosk Inspections, & Complete Inspection Forms
Contract Number : A-EE 10/2008
Estimated Value : ±R100 000

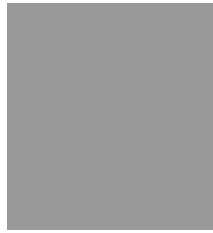
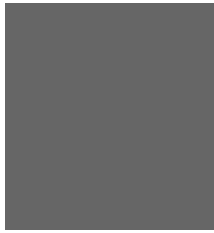
Project : **Substation Maintenance and Repairs**
Client : **Ukubona Electrical** (Ian Sellwood - 083 235 5788)
Period : 2008
Brief Description : Maintenance, Civil & Electrical Work (Edenvale / Bedford / Phomolong Areas Within CoE)
Contract Number : A-MI(E)25/2006
Estimated Value : ±R15 000 000

AFTER CARE SERVICES

SMART & INTELLIGENT INTEGRATED MANAGEMENT



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AFTER SERVICE SUPPORT: We have dedicated staff on a 24 hour basis that can be reach telephonically, by e-mail, by sms, by fax to assist on any regards of our electrical services.

STANDBY / CALL-OUT SERVICE: We have dedicated qualified electrical staff that are available 24hours per day during any time of the year.

ACCESS TO SPARES: We always keep an adequate amount of commonly used spares and material in stock.

MAINTENANCE AND REPAIR TEAMS: We have qualified and well experienced maintenance and repair technicians to replace / service / repair any electrical requirement.

AFTER CARE SERVICES





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